

# EUROPEAN PATENT OFFICE

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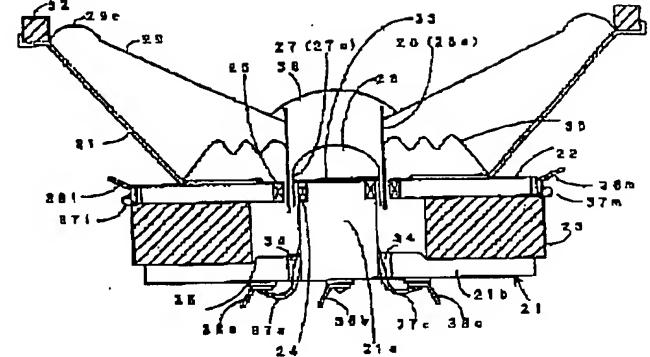
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APPLICANT : SONY CORP;

INVENTOR : MURAGUCHI TAKAHIRO

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**TITLE** : SPEAKER SYSTEM



**ABSTRACT :** PROBLEM TO BE SOLVED: To realize a 2-way coaxial speaker system whose frequency characteristic is flat from medium and low sound frequency regions to a high sound frequency region.

**SOLUTION:** Primary coils 24, 25 receiving a current in response to an input voice signal are provided in the vicinity of an air gap GP of a magnetic circuit. A secondary coil 26 consisting of a short coil in which a current in response to the current supplied to the primary coils is induced and to which a woofer diaphragm 29 is mounted is provided in the air gap GP. A secondary coil 27 consisting of a short coil in which a current in response to the current supplied to the primary coils is induced and to which a tweeter diaphragm 28 is mounted is provided in the air gap GP. The primary coils 24, 25 are driven by a digital signal to induce a secondary current respectively in the secondary coils 26, 27, from which not only a high frequency sound but also a low frequency sound is radiated through the configuration of electromagnetic coupling type.

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